

## **Multifractal parametrization in diagnosis of lungs diseases**

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### **Abstract**

© 2015 Academic Publications, Ltd. We consider the possibility of spatially asymmetric lungs diseases diagnosis by means of X-ray images processing. The method of multifractal parametrization is implemented. We adjust its parameters and construct a number of classifiers (pathology/normal) using the characteristics of multifractal spectrum.

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### **Keywords**

Computer aided diagnosis, Emphysema characterization, Lungs diseases, Multifractal parametrization, Multifractal spectrum